

Compact high-performance module FN 9222

- up to 20A current ratings
 - IEC 950-compliant
 - optional medical version (B type)
 - snap-in version (S and S1 type)
-
- Nennstrom bis 20A
 - IEC 950 konform
 - Für medizinische Geräte als Option (Typ B)
 - Snap-in Version (Typ S und S1)
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- courants de service pouvant atteindre 20A
 - conforme à CEI 950
 - version médicale en option (type B)
 - version snap-in (type S et S1)



Filter selection table

Choose the family FN xxx with the required body style and features, and add -?? to determine current rating, and /?? for output connections. Example: FN 9222-1/06 is a horizontal screw-mounting filter, rated for 1A, with fast-on outputs.

Approvals






 (10A max, for VDE and Semko)

EN133200
IEC60939

Family	Current ratings A at 40°C (25°)								Output connection	Housing
	1 (1.2)	3 (3.5)	6 (7.2)	10 (11.6)	10 (12)	10 (15)	16 (18.5)	20 (23)		
FN 9222 -?? /??	-1	-3	-6	-10	-12	-15	-16	-20	/06 /07	✓ -
FN 9222S -?? /??	-1	-3	-6	-10	-12	-15	-	-	/06 /07	- ✓
FN 9222S1 -?? /??	-1	-3	-6	-10	-12	-15	-	-	/06 /07	- ✓
Inductance L mH										
	12	2.5	0.78	0.225	0.11	0.075	0.54	0.4		

Additional specifications

Filter type	Capacitance		Maximum leakage μA/phase	Res. R MΩ	Weight g	Maximum operating volt.		Operating frequency Hz	Hipot test voltage	
	Cx nF	Cy nF				VAC	Hz		PN→E VAC	P→N VDC
Standard types (up to 15A)	100	2.2	190	-	40	250	50/60	DC to 400	2000	1700
R types (up to 15A)	100	2.2	190	1	40	250	50/60	DC to 400	2000	1700
R types (16/20A)	330	2.2	190	1	120	250	50/60	DC to 400	2000	1700
B types (medical, up to 15A)	100	-	2	1	40	250	50/60	DC to 400	2500	1700
B types (medical, 16/20A)	330	-	2	1	120	250	50/60	DC to 400	2500	1700

MTBF at 40°C, 230V, per Mil-HB-217F: 1,800,000 hours

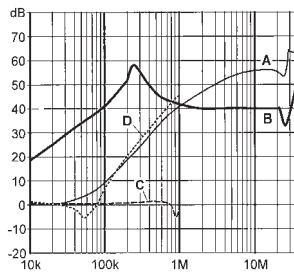
Temperature range: -25°C – +85°C

Please note that 16A and 20A filters are only available as R-types (FN 9222R-16-06 and FN9222R-20-06) with resistor.

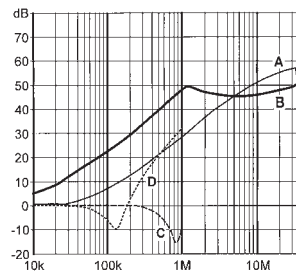
FN 9222 insertion loss

Per CISPR 17; A = $50\Omega/50\Omega$ sym, B = $50\Omega/50\Omega$ asym, C = $0.1\Omega/100\Omega$ sym, D = $100\Omega/0.1\Omega$ sym

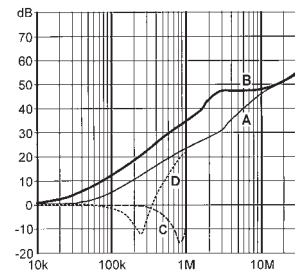
1 amp types



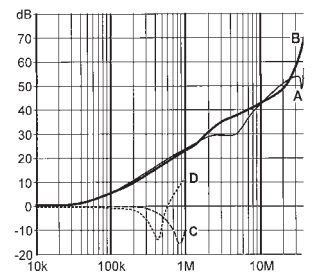
3 amp types



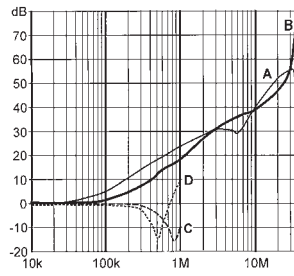
6 amp types



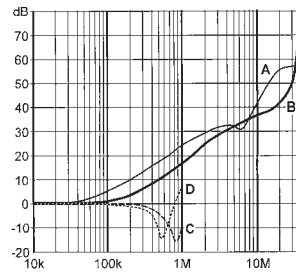
10 amp types



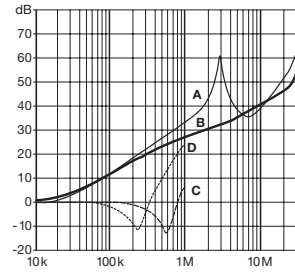
12 amp types



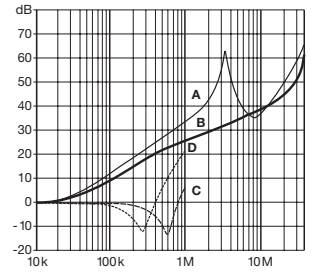
15 amp types



16 amp types

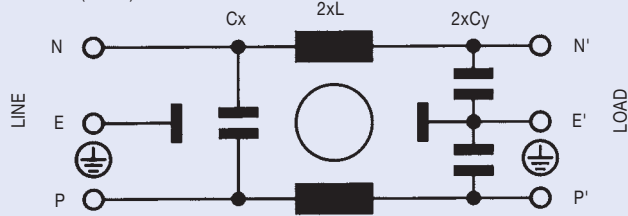


20 amp types

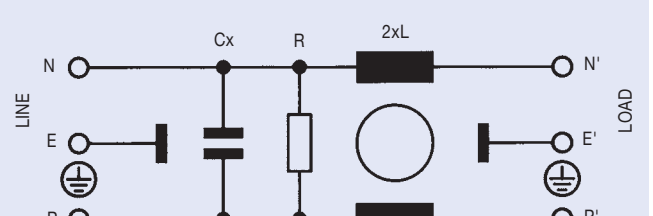


Electrical schematics

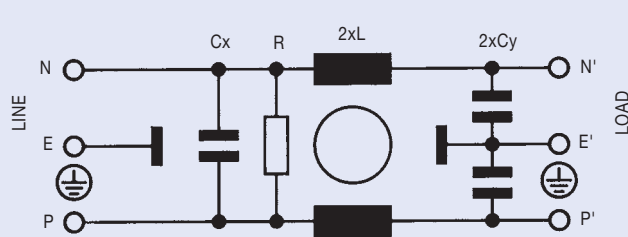
FN 9222 (1-15A)



FN 9222B



FN 9222R



See tables for component values

Mechanical data

FN 9222

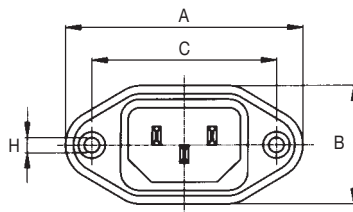
up to 15A

16-20A

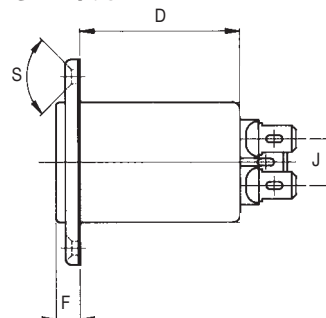
A	48	53
B	22.5	30
C	40	42
D	38.4	73
F	5.5	
H	Ø3.3	Ø3.5
J	13.3	-
M	R≤3	-
N	21.5 ^{+0.5} ₋₀	27
P	28.5 ^{+0.5} ₋₀	34.7
R	M3	
S	90°	
W	6	
Y	AWG 18	
Z	160	

FN 9222 up to 15A

FRONT

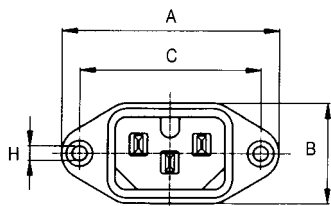


SIDE /06



FN 9222 12 and 15A (versions with IEC hot inlet)

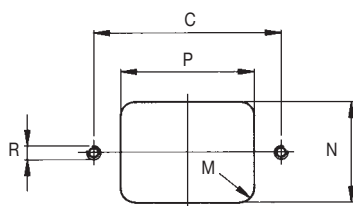
FRONT



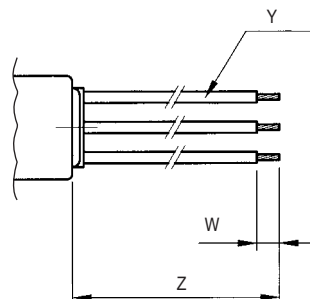
FN 9222x-12-xxHI

FN 9222x-15-xxHI

PANEL CUT-OUT

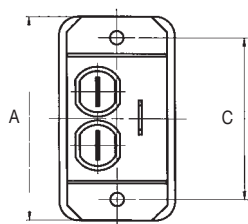


SIDE /07*

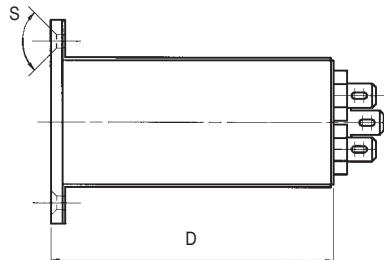


FN 9222R 16 and 20A

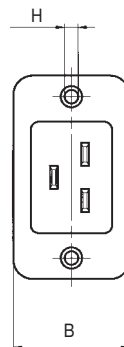
REAR



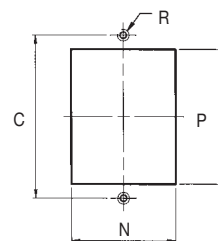
SIDE



FRONT



PANEL CUT-OUT



* FN 9222 filters with wire connections (/07) are currently in preparation. Their mechanical dimensions are subject to minor adjustments. Please contact your local Schaffner office for details.

Mechanical data

FN 9222S

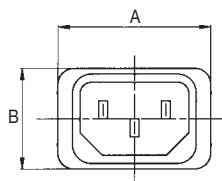
up to 15A

A	29.9
B	22.4
C	27.8
D	38.4
F	5.5
J	13.3
M	$R \leq 1.5$
N	$20.8^{+0.1}_{-0}$
P	$29.4^{+0.1}_{-0}$
T	panel thickness 0.6-2mm
W	6
Y	AWG 18
Z	160

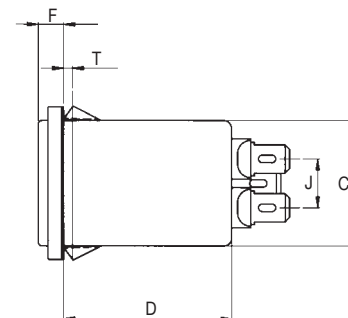
Snap-in version FN 9222S

(For installation instructions see page 92)

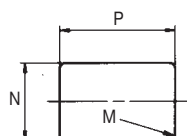
FRONT



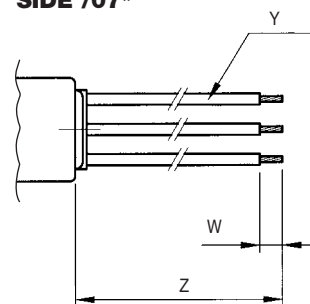
SIDE /06



PANEL CUT-OUT



SIDE /07*



FN 9222S1

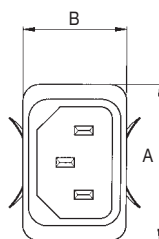
up to 15A

A	29.9
B	22.4
C	27.8
D	38.4
F	5.5
J	13.3
M	$R \leq 1.5$
N	$21.9^{+0.1}_{-0}$
P	$28.5^{+0.1}_{-0}$
T	panel thickness 0.6-2mm
W	6
Y	AWG 18
Z	160

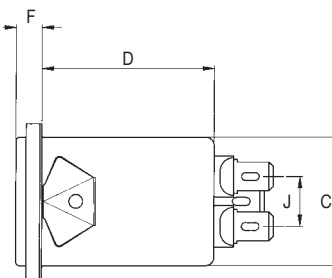
Snap-in version FN 9222S1

(For installation instructions see page 92)

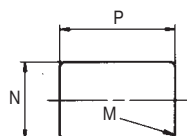
FRONT



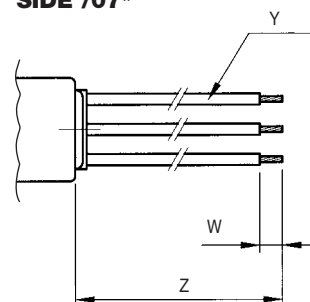
SIDE /06



PANEL CUT-OUT



SIDE /07*



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